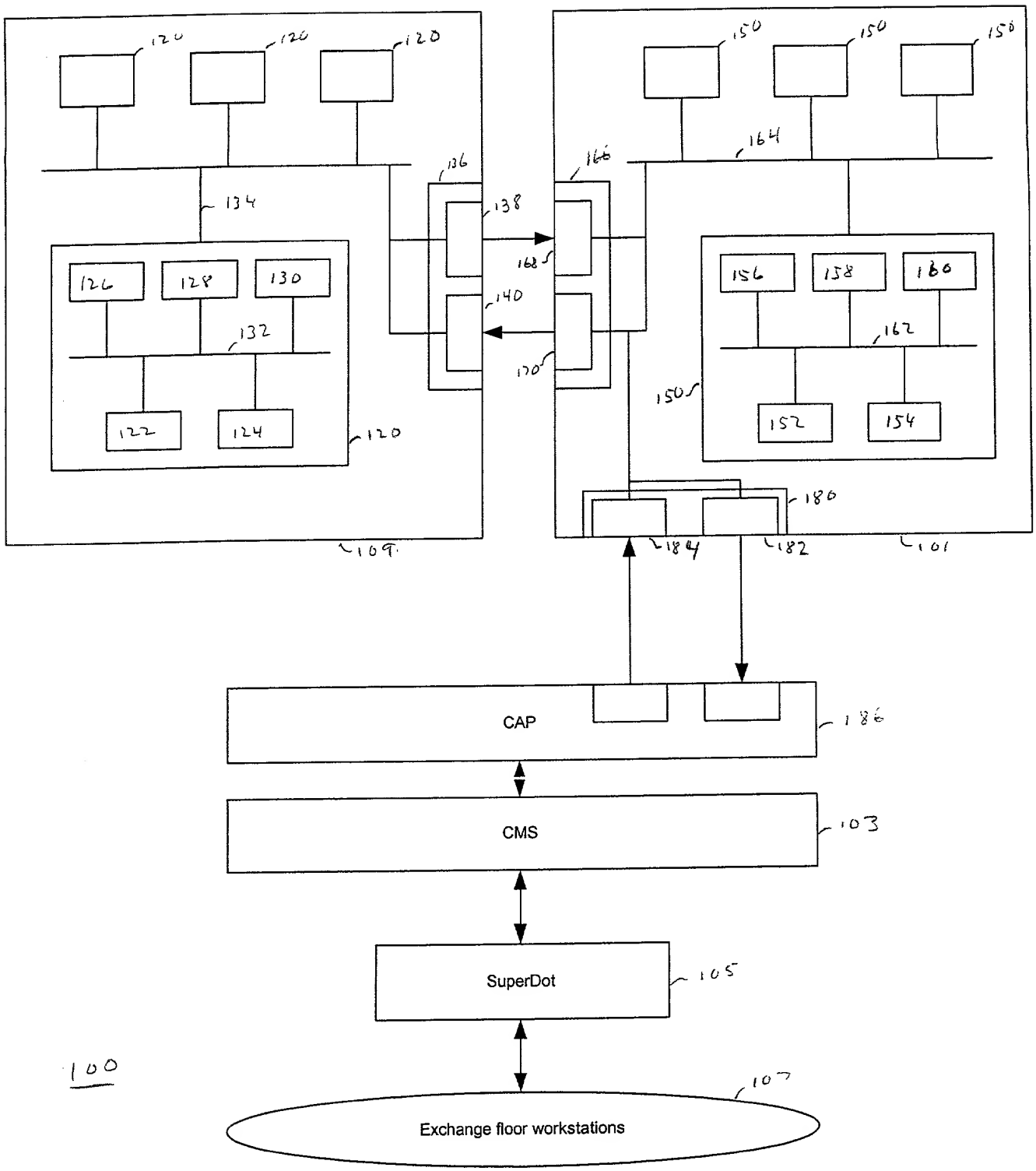


FIG. 1

(Prior Art)

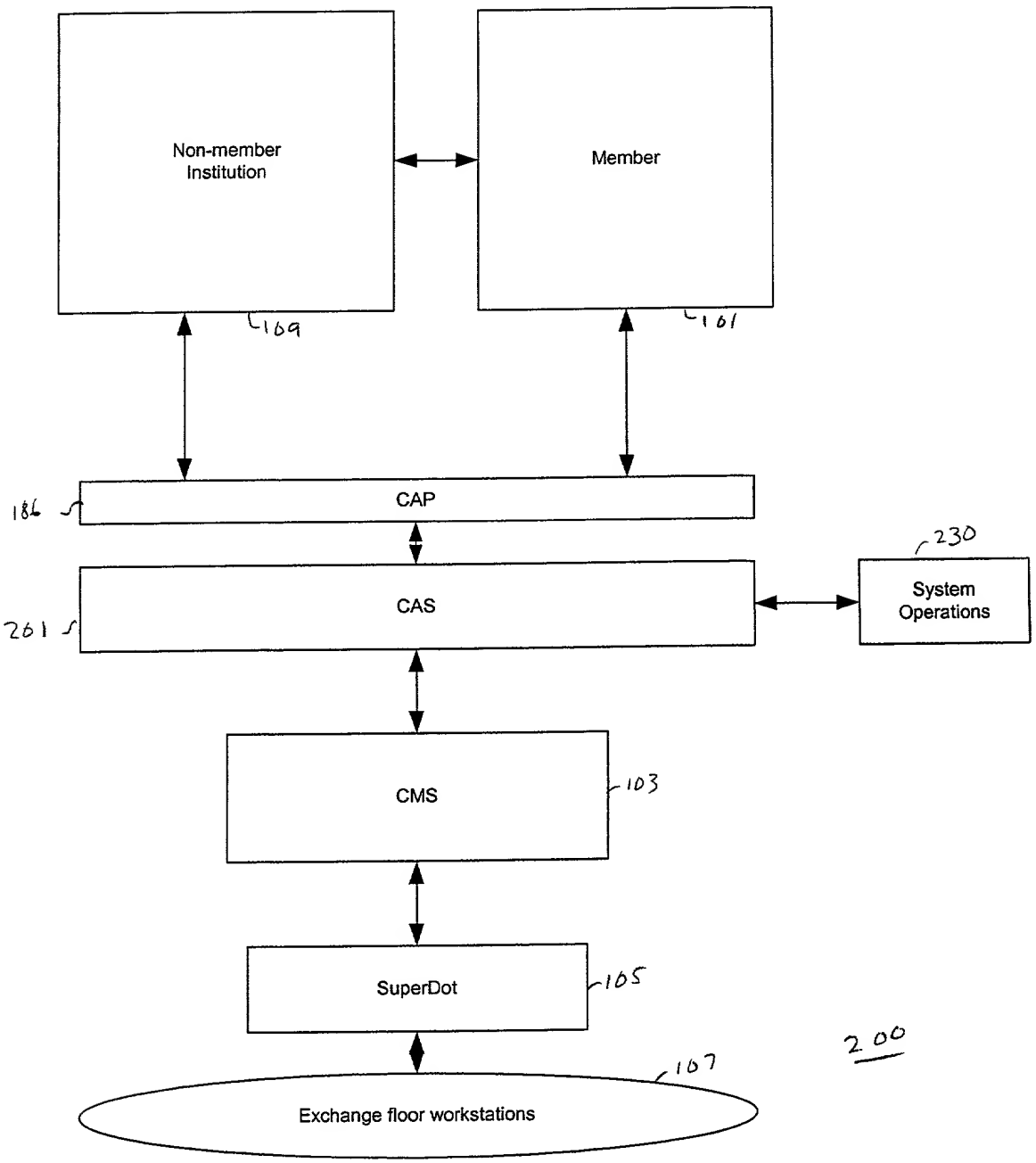

Non-member Institution
Member
169
161
186
CAP
230
CAS
System Operations
261
CMS
103
SuperDot
105
107
Exchange floor workstations
200

FIG. 2

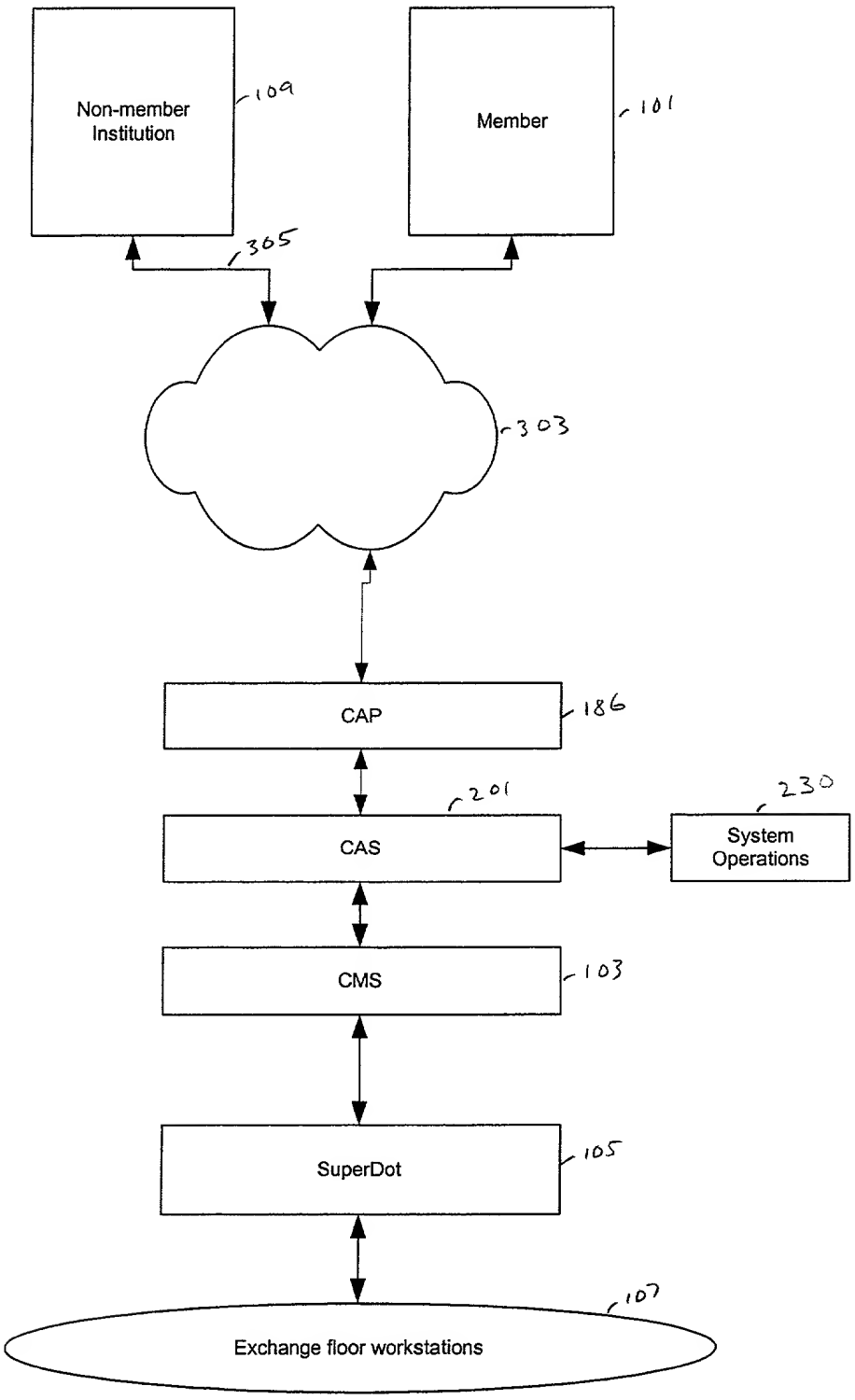

Non-member Institution
109
Member
101
305
303
CAP
186
201
230
CAS
System Operations
CMS
103
SuperDot
105
107
Exchange floor workstations
200

FIG. 3

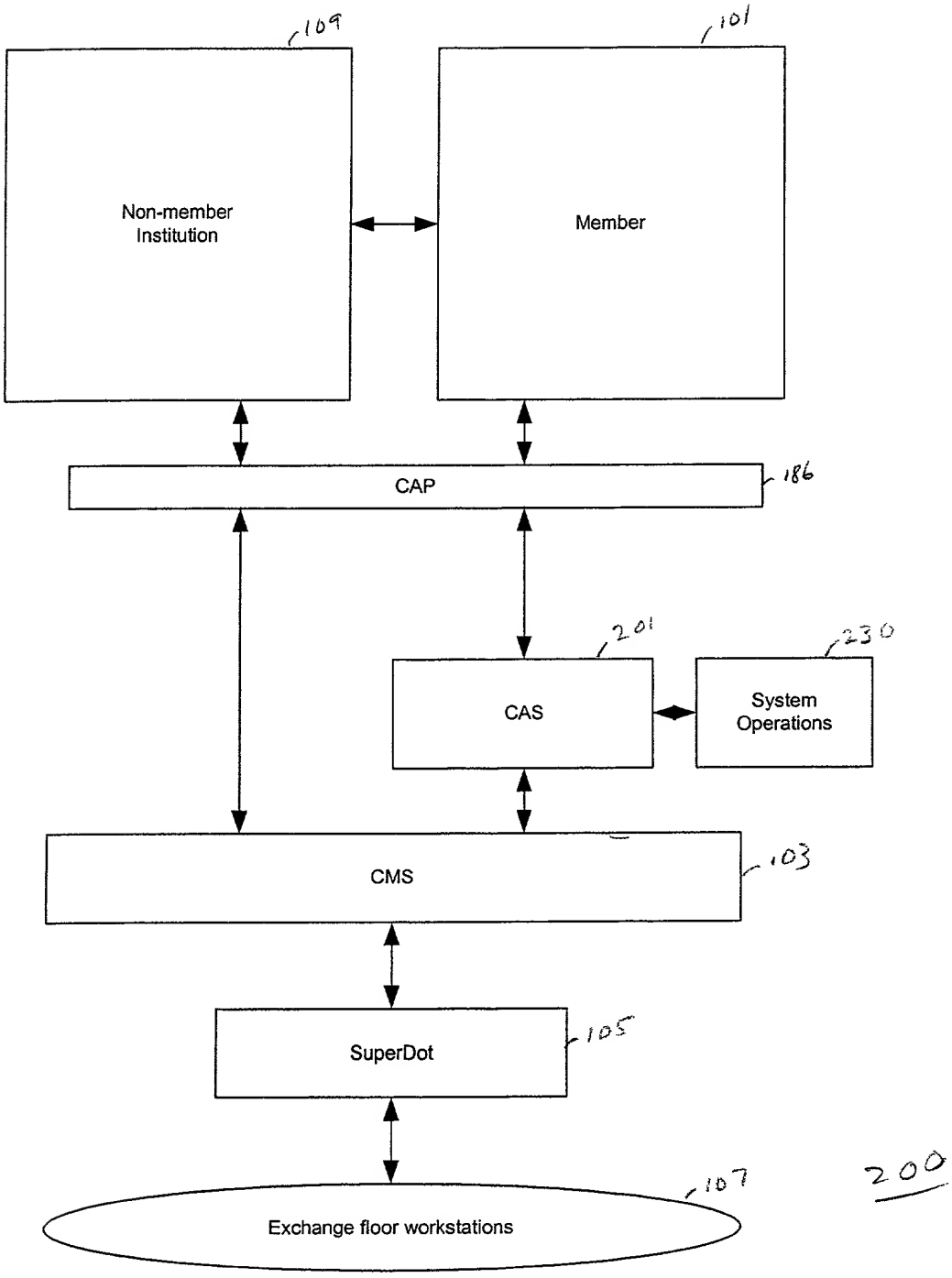

109
101
Non-member Institution
Member
CAP
186
201
230
CAS
System Operations
CMS
103
SuperDot
105
107
Exchange floor workstations
200

FIG. 4 A

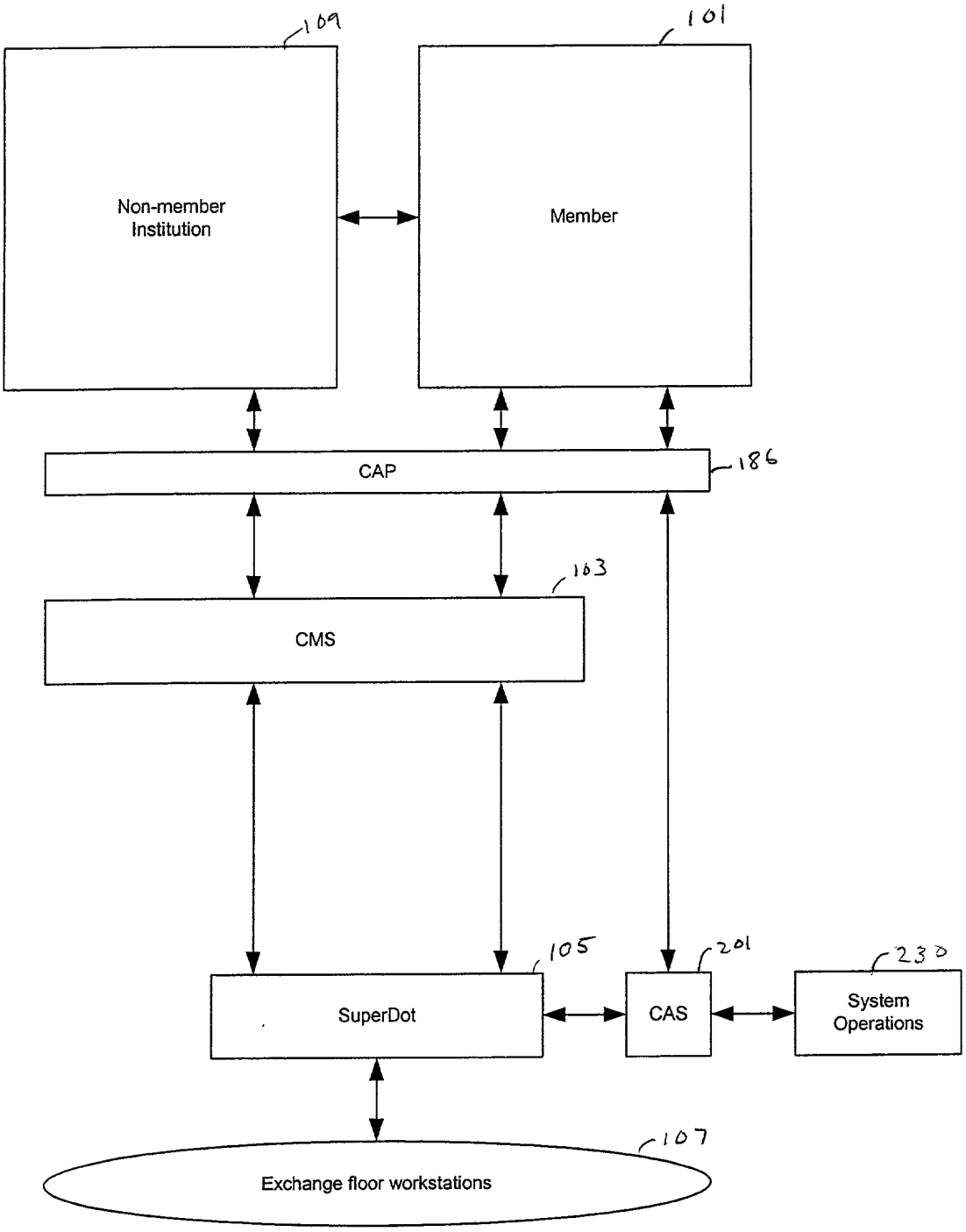

109
101
Non-member Institution
Member
CAP
186
163
CMS
105
201
230
SuperDot
CAS
System Operations
107
Exchange floor workstations

FIG. 4B

FIG. 5

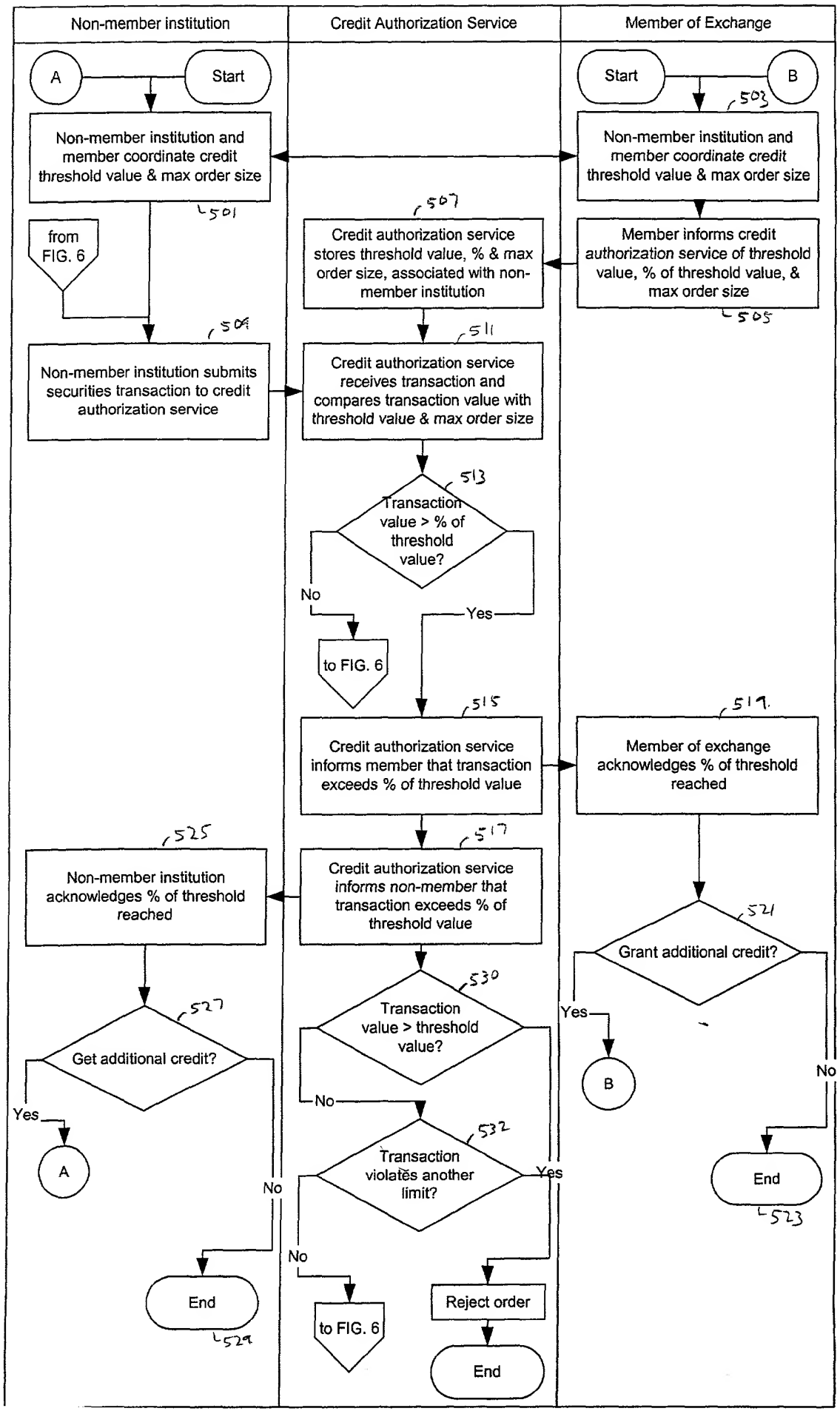
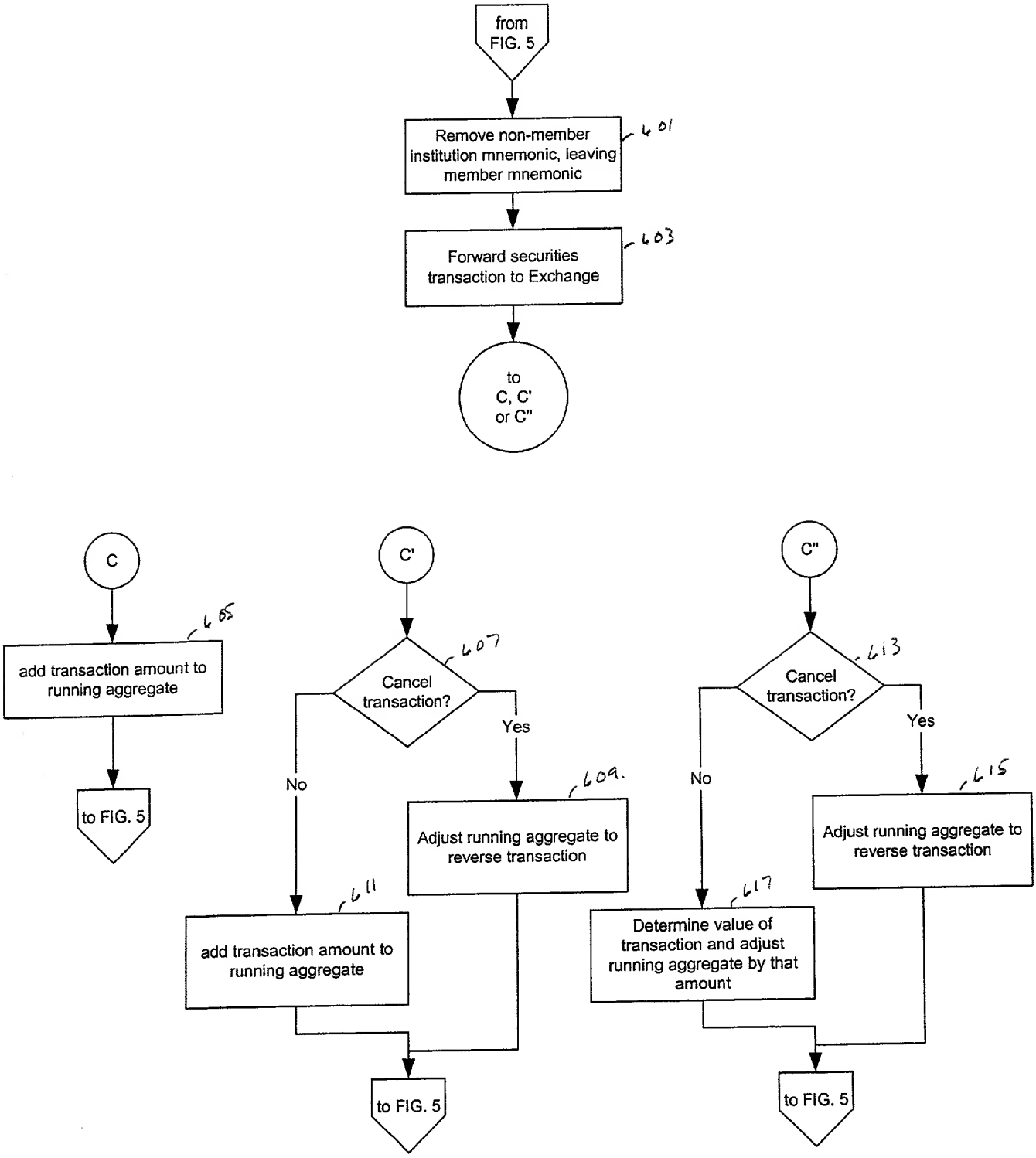

Non-member institution
Credit Authorization Service
Member of Exchange
A
Start
Start
B
503
Non-member institution and member coordinate credit threshold value & max order size
Non-member institution and member coordinate credit threshold value & max order size
501
507
from FIG. 6
Credit authorization service stores threshold value, % & max order size, associated with non-member institution
Member informs credit authorization service of threshold value, % of threshold value, & max order size
505
509
511
Non-member institution submits securities transaction to credit authorization service
Credit authorization service receives transaction and compares transaction value with threshold value & max order size
513
Transaction value > % of threshold value?
No
Yes
to FIG. 6
515
519
Credit authorization service informs member that transaction exceeds % of threshold value
Member of exchange acknowledges % of threshold reached
525
517
Non-member institution acknowledges % of threshold reached
Credit authorization service informs non-member that transaction exceeds % of threshold value
521
Grant additional credit?
530
Transaction value > threshold value?
Yes
B
No
527
Get additional credit?
Yes
A
No
532
Transaction violates another limit?
Yes
End
523
No
End
529
to FIG. 6
Reject order
End

FIG. 6


from FIG. 5
Remove non-member institution mnemonic, leaving member mnemonic
601
Forward securities transaction to Exchange
603
to C, C' or C"
C
add transaction amount to running aggregate
605
to FIG. 5
C'
Cancel transaction?
607
No
Yes
Adjust running aggregate to reverse transaction
609
add transaction amount to running aggregate
611
to FIG. 5
C"
Cancel transaction?
613
No
Yes
Adjust running aggregate to reverse transaction
615
Determine value of transaction and adjust running aggregate by that amount
617
to FIG. 5

	701 non-member institution	703 non-member mnemonic	705 sponsoring exchange member	707 exchange member mnemonic	709 threshold value	711 % alert	713 max order size
715	instA	INA	member1	MEM1	1000	75%	250
	instB	INB	member1	MEM1	300	80%	400
	instC	INC	member1	MEM1	1500	100%	300
	privA	PRIVA	member1	MEM1	5000	95%	100
715	instA	INA	member2	MEM2	4300	100%	2000
	instD	IND	member2	MEM2	5800	100%	9999
	privB	PRIVB	member2	MEM2	1000	50%	60
	instE	INE	member3	MEM3	1000	65%	200

FIG. 7

Electronic Patent Application Fee Transmittal

Limit order reconcilled according to absolute value of transaction price			
Trading Day	206		
non-member institution	instB		
non-member mnemonic	INB		
sponsoring exchange member	member1		
exchange member mnemonic	MEM1		
threshold value	300		
percentage alert	80.00%		
alert value	240		
Beginning aggregate	185		
Transaction(s)	actual	applied	
Buy	20	20	205
Sell	-10	10	215
Buy	5	5	220
Buy	6	6	226
Buy	6	6	232
Sell	-5	5	237
Sell	-4	4	241
Cancel sell	4	4	245
Buy	3	3	248
Sell	-2	2	250
Sell	-1	1	251
Sell	-10	10	261
Buy	2	2	263
Buy	1	1	264
netted total	15		
applied total		79	

FIG 8

Limit order reconcilled according to absolute value of limit price, with cancel reverse			
Trading Day	206		
non-member institution	instB		
non-member mnemonic	INB		
sponsoring exchange member	member1		
exchange member mnemonic	MEM1		
threshold value	300		
percentage alert	80.00%		
alert value	240		
Beginning aggregate	185		
Transaction(s)	actual	applied	
Buy	20	20	205
Sell	-10	10	215
Buy	5	5	220
Buy	6	6	226
Buy	6	6	232
Sell	-5	5	237
Sell	-4	4	241
Cancel sell	4	-4	237
Buy	3	3	240
Sell	-2	2	242
Sell	-1	1	243
Sell	-10	10	253
Buy	2	2	255
Buy	1	1	256
netted total	15		
applied total		71	

FIG. 9

Market Orders reconcilled according to execution price			
Trading Day	206		
non-member institution	instB		
non-member mnemonic	INB		
sponsoring exchange member	member1		
exchange member mnemonic	MEM1		
threshold value	300		
percentage alert	80.00%		
alert value	240		
Beginning aggregate	185		
Transaction(s)	actual	applied	
Buy	20	20	205
Sell	-10	-10	195
Buy	5	5	200
Buy	6	6	206
Buy	6	6	212
Sell	-5	-5	207
Sell	-4	-4	203
Cancel sell	4	4	207
Buy	3	3	210
Sell	-2	-2	208
Sell	-1	-1	207
Sell	-10	-10	197
Buy	2	2	199
Buy	1	1	200
netted total	15		
applied total		15	

FIG. 10

T+3 Reconcile				
Trading Day	Daily applied	Beginning + daily applied	Reconcile T-3	aggregate beginning on next day
...				0
200	100	100	0	100
201	60	160	0	160
202	80	240	-100	140
203	50	190	-60	130
204	90	220	-80	140
205	95	235	-50	185
206	79	264	-90	174
207				

FIG. 11

T+1 Reconcile				
Trading Day	Daily applied	Beginning + daily applied	Reconcile T-1	aggregate beginning on next day
...				0
200	100	100	-100	0
201	60	60	-60	0
202	80	80	-80	0
203	50	50	-50	0
204	90	90	-90	0
205	95	95	-95	0
206	79	79	-79	0
207				

FIG. 12